

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number  
**WO 2005/061523 A1**

(51) International Patent Classification<sup>7</sup>: **C07H 5/10**, 13/12, 15/04, 11/04, 15/18, A61K 31/70, 31/7012, 31/7016, 31/7028, A61P 7/00, 7/02, 29/00, 35/00, 31/00, 43/00

MIDDLE PARK, QLD 4074 (AU). **LI, Cai Ping** [AU/AU]; 89 Seabrook Circuit, WEST LAKE, QLD 4074 (AU). **LIU, Ligong** [AU/AU]; 28 Samara Street, SUNNYBANK, QLD 4109 (AU).

(21) International Application Number:  
PCT/AU2004/001800

(74) Agent: **CULLEN & CO.**; Level 26, 239 George Street, BRISBANE, QLD 4000 (AU).

(22) International Filing Date:  
21 December 2004 (21.12.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
2003907107 23 December 2003 (23.12.2003) AU

(71) Applicant (for all designated States except US): **PROGEN INDUSTRIES LIMITED** [AU/AU]; 2806 Ipswich Road, DARRA, QLD 4076 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DON, Robert Hugh** [AU/AU]; 17 Bee Street, BARDON, QLD 4065 (AU). **FERRO, Vito** [AU/AU]; 8 Rani Close, MT. OMMANNEY, QLD 4074 (AU). **BYTHEWAY, Ian** [AU/AU]; 20 Edgehill Street, NATHAN, QLD 4111 (AU). **COCHRAN, Siska** [AU/AU]; 72 Leichhardt Crescent, BARELLAN POINT, QLD 4306 (AU). **FAIRWEATHER, Jon Krueger** [AU/AU]; 31 Boronia Avenue, HOLLAND PARK WEST, QLD 4121 (AU). **HAMMOND, Edward Timothy** [AU/AU]; 154 Stanley Terrace, TARINGA, QLD 4068 (AU). **KAROLI, Tomislav** [AU/AU]; 14 Kosciusko Street,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/061523 A1

(54) Title: GLYCOSAMINOGLYCAN (GAG) MIMETICS

(57) Abstract: The invention relates to compounds that are designed to mimic the structure of GAGs; methods for the preparation of the compounds; compositions comprising the compounds; and use of the compounds and compositions thereof for the anti-an-giogenic, anti-metastatic, anti-inflammatory, anticoagulant, antithrombotic, and/or antimicrobial treatment of a mammalian subject.